ClinicalEMR Pro

Instructor Guide — Electronic Medical Record Simulation

Audience
Instructors / Educators Only

Format
Hosted Website

Level
Allied Health · Nursing · HIT Programs

Patients
11 Pre-Loaded Clinical Scenarios

Publisher
HealthSim Hub · © 2025

🔒 **This guide is for instructors only. Please do not share with students — a separate Student Guide is available for student distribution.**

📋 About This Simulation

OVERVIEW

ClinicalEMR Pro is a browser-based Electronic Medical Record simulation hosted as a website. Students access it using a shared link — no download, no installation, and no account required. It mirrors the structure and workflow of real-world EMR systems, giving students hands-on practice navigating patient charts, entering clinical data, processing orders, and managing billing.

The simulation resets each session, making it ideal for repeated classroom use. All 11 patients and their pre-loaded clinical data are restored every time a student opens the link.

> ⚠ **DATA PERSISTENCE — IMPORTANT**
>
> The simulation does not retain any data after the browser tab is closed or refreshed. All student entries are session-only. A reminder toast notification appears automatically when students first open the site. Remind students to print their completed record before closing.

Learning Objectives

Upon completing a session, students will be able to:

→ Navigate a multi-section EMR chart using a sidebar workflow

→ Check patients in and out of a clinical encounter

→ Document vital signs, allergies, and current medications accurately

→ Write and edit clinical notes using standard note types (SOAP, Progress, Nursing, etc.)

→ Place and manage clinical orders through a Pending → In Progress → Completed workflow

→ Perform and record point-of-care lab procedures with clinical interpretation

→ Complete an encounter form including Review of Systems and Physical Exam

→ Apply CPT and ICD-10 codes to generate visit charges

→ Calculate patient financial responsibility including deductibles, copays, and insurance

→ Print a complete patient record for submission or review

Pre-Loaded Patient Roster   REFERENCE

The simulation includes 11 pre-loaded patients representing a diverse range of ages, conditions, insurance types, and clinical scenarios. Each patient's demographic information corresponds to a printed patient card for distribution to students.

#	PATIENT	AGE	SCENARIO	INSURANCE
1	**Ethan Morales**	5	Pediatric Well-Child / Kindergarten Physical	Medicaid – SCHP
2	**Lily Chen**	9	Pediatric Acute — Sore Throat & Fever	Blue Cross Blue Shield PPO
3	**Jamal Robinson**	15	Adolescent Sports Physical	United Healthcare
4	**Sofia Martinez**	22	Young Adult Preventive / Birth Control Refill	Aetna Student Health
5	**Sarah Thompson**	29	Prenatal Care — Routine Visit	Blue Cross Blue Shield
6	**Michael Turner**	34	Adult Acute — Lifting Injury / Back Pain	Workers' Compensation
7	**Angela Brooks**	45	Chronic Disease — Type 2 Diabetes Follow-Up	Medicare Advantage

#	PATIENT	AGE	SCENARIO	INSURANCE
8	**Robert King**	58	Cardiology — Hypertension Follow-Up	United Healthcare
9	**Carol White**	67	Orthopedic Post-Op — Knee Replacement	Medicare
10	**Harold Simmons**	74	Geriatric Chronic Care — COPD Management	Medicare
11	**Margaret Hill**	82	Geriatric Preventive — Annual Wellness Visit	Medicare + Supplemental

> 💡 **ASSIGNMENT TIP**
>
> Assign specific patients to individual students or groups to avoid duplication. Patients 1–4 work well for introductory-level students. Patients 7–11 are recommended for advanced courses due to complex medication lists and multi-system diagnoses.

Before Class — Checklist

1 Confirm the **simulation website link** opens correctly in Chrome or Edge (recommended). Firefox also works. Safari may have minor print differences.

2 Distribute the **patient cards** to students. Each card contains the demographic and clinical information students will enter into the EMR during the activity.

3 Share the **Student Guide link** and the **simulation website link** with your class. Keep this Instructor Guide private — do not share it with students.

4 Review the suggested task table below and decide which sections you want students to complete for their assigned scenario.

5 Remind students that the site **does not save data** — they must use the Print button to save a PDF of their work before closing the tab.

Recommended Delivery Options

🖥️ Individual Activity

Each student receives one patient card and completes the full encounter workflow independently. Ideal for individual skills competency checks.

👥 Group Activity

Pairs share a patient and divide roles — one documents vitals and notes, one handles orders and billing. Mirrors real clinical team dynamics.

🏫 Instructor-Led Demo

Project the simulation and walk through one patient as a class, having students call out what to enter at each step before advancing.

📝 Competency / Exam

Assign a specific patient and task list. Students complete the encounter, print the record, and submit as a PDF for grading.

Suggested Task List by Section

SECTION	SUGGESTED STUDENT TASK	LEVEL
Patient Details	Verify all demographics match the patient card exactly	Intro
Check In	Check the patient in using the sidebar Check In button	Intro
Vital Signs	Enter vitals from the patient card; save the entry	Intro

SECTION	SUGGESTED STUDENT TASK	LEVEL
Allergies & Meds	Confirm listed allergies and medications; add any listed on the card	Intro
Problem List	Add the primary diagnosis using the correct ICD-10 code	Mid
Clinical Notes	Write a SOAP note based on the patient card's chief complaint	Mid
Orders	Place the lab or imaging order listed on the card; advance through workflow to completion with results	Mid
Labs & Procedures	Perform the point-of-care test indicated on the card; document findings	Mid
Encounter Form	Complete ROS and PE based on the patient scenario; write the Assessment & Plan	Advanced
Visit Charges	Select appropriate CPT code(s) for the visit type; add all charges	Advanced
Checkout	Review billing summary; verify patient responsibility calculation; process payment	Advanced
Print	Print the complete patient record as a PDF and submit	Intro

Grading Suggestions

→ **Demographic accuracy** — all fields match the patient card exactly

→ **Completeness** — all assigned sections were filled in

→ **Clinical accuracy** — ICD-10 and CPT codes are appropriate for the scenario

→ **SOAP note quality** — proper format with appropriate clinical language

→ **Billing accuracy** — checkout calculation correctly reflects insurance, copay, and deductible

⚙ Complete Feature Reference   INSTRUCTOR

This section documents every feature included in the simulation for curriculum planning and lesson bundling purposes.

Patient Management

→ 11 pre-loaded patients spanning ages 5–82 with diverse insurance types and clinical scenarios

→ Patient dropdown selector in the header with age and MRN displayed

→ Check In / Check Out buttons with live status badge in the header

→ Add Patient, Edit Patient (all demographic and insurance fields), and Delete Patient with inline confirmation

→ Guardian field displayed for pediatric patients; age displayed in months for patients under 2 years

PATIENT DETAILS

→ Demographics, insurance, and contact cards; active problems and current medications summary panels

VISIT HISTORY

→ Pre-populated with 2–3 historical encounters per patient — date, visit type, provider, and reason

PROBLEM LIST

→ ICD-10 coded list with Active / Chronic / Resolved status color badges; add and delete problems

VITAL SIGNS

→ Input fields: temperature, systolic/diastolic BP, heart rate, respiratory rate, weight, O2 saturation

→ Stat cards showing most recent values; full history table in reverse chronological order

ALLERGIES & MEDICATIONS

→ Allergy list with Mild/Moderate/Severe severity badges; medication list with dose, frequency, route; inline add and delete for both

CLINICAL NOTES

→ Types: SOAP, Progress, Nursing, Consultation, Discharge Summary, Phone Encounter

→ Inline edit (type, provider, content) and delete on each saved note; displayed in reverse chronological order

ORDERS & WORKFLOW

→ Types: Lab, Imaging, Procedure, Consultation, Medication — Priority: Routine / Urgent / STAT (color-coded)

Pending → **In Progress** → **Completed**

→ Inline result entry field opens when marking an order Done; students type findings before confirming

→ Completed orders feed automatically into the Results page

RESULTS

→ Unified view combining completed orders and all lab/procedure entries; organized into "From Orders" and "From Labs & Procedures" sub-sections

LABS & PROCEDURES

→ Urinalysis (dipstick) — 6 parameters with clinical interpretation for UTI / glycosuria

→ Pregnancy Test (hCG) — qualitative or quantitative with result interpretation

→ POC Glucose — with collection timing; critical low alert (<70 mg/dL) and diabetes threshold alert (≥126 fasting)

→ Manual Result Entry — any test type with Lab/Imaging/Procedure/Consult/Other classification, free-text findings, Final/Preliminary/Pending/Corrected status; feeds into Results page

ENCOUNTER FORM

→ Chief Complaint, HPI, ROS (8 systems × 3 symptoms in card layout with aligned checkboxes), PE (8 areas × 2 findings), Assessment & Plan

VISIT CHARGES

→ 22 pre-loaded CPT codes with auto-fill description and amount

→ Manual entry for any CPT, ICD-10, HCPCS, or custom code; source badge distinguishes List vs. Manual entries

CHECKOUT

→ Auto-calculates: deductible remaining → 80/20 insurance split → copay → 8% tax

→ Payment methods: Credit Card, Debit Card, Insurance Claim, Cash, Check, Payment Plan

→ Confirmation receipt with patient name, amount, method, and timestamp

SYSTEM-WIDE

→ Print to PDF — clean printable chart with sidebar and action buttons hidden from output

→ Toast notifications — all feedback via non-intrusive toasts; no browser alert dialogs used anywhere

→ First-load reminder toast — informs students to print before exiting

→ Session persistence — all data retained while navigating; resets on tab close or refresh

Pediatric Encounter Form

When a pediatric patient is selected (Ethan Morales, Lily Chen, or Jamal Robinson), the Encounter Form section automatically reveals a 🩺 **Pediatric Encounter** tab and switches to it by default. Students can still access the Standard Encounter tab at any time.

The form is age-aware — developmental milestone checklists and immunization schedules automatically populate content matched to the selected patient's age. Each of the three pediatric patients loads a different set of content.

→ **Chief Complaint & Reason for Visit** — visit type selector (Well-Child, Acute, Sports Physical, etc.), HPI, and a separate Parent/Guardian Concerns field

→ **Growth & Development** — height, weight, and BMI percentile fields with auto-labeled BMI category; growth trend selection; age-appropriate developmental milestone checklist across Gross Motor, Fine Motor, Language, and Social/Emotional domains

→ **Immunization Status** — age-appropriate vaccine checklist auto-loads for the patient; vaccines administered today with name, lot number, and site; notes field

→ **Nutritional Assessment** — feeding type for infants; diet quality checkboxes for older children; anticipatory guidance including screen time, activity, sleep, car seat, helmet, firearm safety, and dental hygiene

→ **School & Behavioral** — grade level, academic performance, IEP/504 status, behavioral concern checkboxes

→ **Assessment & Plan** — free text plus next well-child visit date

> 💡 **INSTRUCTOR TIP — PEDIATRIC PATIENTS**
>
> Each pediatric patient is a genuinely different exercise because of the age-matched content. Assign Ethan (age 5) for well-child visit practice, Lily (age 9) for pediatric acute illness documentation, and Jamal (age 15) for adolescent and sports physical workflows. Students will see different milestone checklists and immunization schedules for each patient.

📦 Bundling & Distribution INSTRUCTOR

COMPONENT	FORMAT	AUDIENCE
This Instructor Guide	PDF / Hosted link	Instructors only — do not share with students
Student Guide	PDF / Hosted link	Distribute to students before the activity

COMPONENT	FORMAT	AUDIENCE
ClinicalEMR Pro Simulation	Hosted website link	Share the URL with students
Patient Cards (11 cards)	PDF / Print	One card per student or group
Lesson Plan / Objectives	PDF / DOCX	Curriculum alignment and delivery notes

✓ **NO TECHNICAL SETUP REQUIRED**

Because the simulation is hosted as a website, there is nothing to configure or install. Simply share the link. Students open it in any browser and begin immediately. Each session starts fresh with all 11 patients fully loaded.

ClinicalEMR Pro — Instructor Guide

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